CLAIM AMENDMENTS

Claim Amendment Summary

Claims pending

- Before this Amendment: Claims 1-18, 40-43, 49-50.

- After this Amendment: Claims 1-11, 13-19, and 51-58.

Non-Elected, Canceled, or Withdrawn claims: 12, 18-50.

Amended claims: 8 and 13.

New claims: 51-58.

Claims:

1. (ORIGINAL) A method for efficient transmission of TCP/IP headers via a wireless communications link from a sender to a receiver, the method comprising:

obtaining TCP/IP packets having associated TCP/IP headers;

losslessly compressing the associated headers;

feedback-independently transmitting of a plurality of the compressed headers via the communications link;

the transmitting comprising:

adjusting a sliding window within which the plurality of the compressed headers are transmitted, wherein the adjusting is modeled to react to TCP/IP window-size changes that results from the congestion procedures of TCP/IP;

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using the sliding window, W-LSB encoding the plurality of the compressed headers;

sending the resulting W-LSB encoded plurality of compressed headers.

2. **(ORIGINAL)** A method as recited in claim 1, further comprising inferentially determining whether there is an inconsistent context between the sender and the receiver.

3. **(ORIGINAL)** A method as recited in claim 1, further comprising:

inferentially determining whether there is an inconsistent context between the sender and the receiver;

if so, then refreshing the context between the sender and the receiver.

4. **(ORIGINAL)** A method as recited in claim 1, wherein the sender is a header compressor (HC) and the receiver is a header decompressor (HD).

5. **(ORIGINAL)** A computer comprising one or more computer-readable media having computer-executable instructions that, when executed by the computer, perform the method as recited in claim 1.

6.   (ORIGINAL)   A computer network comprising a computer comprising one or more computer-readable media having computer-executable instructions that, when executed by the computer, perform the method as recited in claim 1.

7.   (ORIGINAL)   A computer-readable medium having computer-executable instructions that, when executed by a computer, performs the method as recited in claim 1.

8.   (CURRENTLY AMENDED)   A   method   for   efficient transmission of network transport-layer protocol headers via a communications link, the method comprising:

obtaining transport-layer protocol packets having associated transport-layer protocol headers;

compressing the associated headers;

feedback-independently transmitting of a plurality of the compressed headers via the communications link;

the transmitting comprising:

adjusting a sliding window within which the plurality of the compressed headers are transmitted;

using the sliding window, W-LSB encoding the plurality of the compressed headers;

sending the resulting W-LSB encoded plurality of compressed headers.

9.   (ORIGINAL)   A method as recited in claim 8, further comprising inferentially determining whether there is an inconsistent context, wherein an inconsistent context is when one or more headers are not properly received by a receiver on the communications link.

10.   (ORIGINAL)   A method as recited in claim 8, further comprising:

inferentially determining whether there is an inconsistent context, wherein an inconsistent context is when one or more headers are not properly received by a receiver on the communications link;

if so, then refreshing the context to make the context consistent.

11.   (ORIGINAL)   A method as recited in claim 8, wherein, for the compressing, the headers are compressed losslessly.

12.   (CANCELED)

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13. (CURRENTLY AMENDED) A method ~~as recited in claim 8,~~ ~~wherein the transmitting comprises:~~ for efficient transmission of network transport-layer protocol headers via a communications link, the method comprising:

obtaining transport-layer protocol packets having associated transport-layer protocol headers;

compressing the associated headers;

feedback-independently transmitting of a plurality of the compressed headers via the communications link;

the transmitting comprising:

adjusting a sliding window within which the plurality of the compressed headers are transmitted, wherein the adjusting is modeled to react to window size changes of the transport-layer protocol that results from the congestion procedures of such transport-layer protocol;

using the sliding window, W-LSB encoding the plurality of the compressed headers;

sending the resulting W-LSB encoded plurality of compressed headers.

14. (ORIGINAL) A method as recited in claim 8, wherein the communications link is wireless.

15. (ORIGINAL) A method as recited in claim 8, wherein the network transport-layer protocol is TCP.

16.   (ORIGINAL)   A computer comprising one or more computer-readable media having computer-executable instructions that, when executed by the computer, perform the method as recited in claim 8.

17.   (ORIGINAL)   A computer network comprising a computer comprising one or more computer-readable media having computer-executable instructions that, when executed by the computer, perform the method as recited in claim 8.

18.   (ORIGINAL)   A computer-readable medium having computer-executable instructions that, when executed by a computer, performs the method as recited in claim 8.

Claims 19-50 are **CANCELED.**

51.   (NEW)   A method as recited in claim 13, further comprising inferentially determining whether there is an inconsistent context, wherein an inconsistent context is when one or more headers are not properly received by a receiver on the communications link.

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52. (NEW) A method as recited in claim 13, further comprising:

inferentially determining whether there is an inconsistent context, wherein an inconsistent context is when one or more headers are not properly received by a receiver on the communications link;

· if so, then refreshing the context to make the context consistent.

53. (NEW) A method as recited in claim 13, wherein, for the compressing, the headers are compressed losslessly.

54. (NEW) A method as recited in claim 13, wherein the communications link is wireless.

55. (NEW) A method as recited in claim 13, wherein the network transport-layer protocol is TCP.

56. (NEW) A computer comprising one or more computer-readable media having computer-executable instructions that, when executed by the computer, perform the method as recited in claim 13.

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57. **(NEW)** A computer network comprising a computer comprising one or more computer-readable media having computer-executable instructions that, when executed by the computer, perform the method as recited in claim 13.

58. **(NEW)** A computer-readable medium having computer-executable instructions that, when executed by a computer, performs the method as recited in claim 13.

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